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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/620,212	07/15/2003	Thomas L. Merrill	8748		
7590 08/11/2005			EXAMINER		
Thomas L. Merrill			MENDEZ, MANUEL A		
25 Lynnfield Dr E. Windsor, NJ		ART UNIT	PAPER NUMBER		
,			3763		
			DATE MAILED: 08/11/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	on No.	Applicant(s)				
Office Action Summary		10/620,21		MERRILL ET AL.				
		Examiner	4	Art Unit				
	-	Manuel Me	endez	3763				
	The MAILING DATE of this communica				ress			
Period fo	• -							
THE - External after - If the - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA assions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum stature to reply within the set or extended period for reply will reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ATION. 17 CFR 1.136(a). In no ever cation. ays, a reply within the statuory period will apply and wit, by statute, cause the apply.	int, however, may a reply be tim story minimum of thirty (30) days I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this com O (35 U.S.C. § 133).	nmunication.			
Status								
1)	Responsive to communication(s) filed	on <i>05/26/2005</i> .						
′—	This action is FINAL . 2b)⊠ This action is non-final.							
3) 🗌	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5) [6) [7) [Claim(s) 14-43 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 14-43 are subject to restriction and/or election requirement. 							
Applicati	ion Papers							
10)	The specification is objected to by the E The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to b) accepted or b) on to the drawing(s) be e correction is requir	e held in abeyance. See ed if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFF				
Priority (under 35 U.S.C. § 119							
12) [a)	Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority do 2. Certified copies of the priority do 3. Copies of the certified copies of application from the International	cuments have bee cuments have bee the priority docume I Bureau (PCT Rul	n received. n received in Applicati ents have been receive e 17.2(a)).	on No ed in this National S	itage			
Attachmen								
2) Notice 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or PT sr No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	152)			

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 14-31, drawn to a multi-lumen catheter including a working fluid transfer pathway; a first manifold for connecting the multi-lumen catheter to a return pathway; a heterogeneous and compliant heat exchange portion connected to said first manifold, the heat exchange portion having a plurality of dynamic surface regions that provide internal and external boundary layer disruption; a second manifold connected to the heat exchange portion that distributes the working fluid through the heat exchange portion; and a high frequency working fluid pressure oscillator adapted to create surface dynamics in the heat exchange portion, classified in class 604, subclass 113.
- II. Claims 32-37, drawn to a single lumen catheter including a working fluid pathway; a compliant connective element connecting the single lumen catheter to a first manifold, the first manifold connecting said compliant connective element to a compliant heat exchange surface; wherein during operation of the heat transfer device, the compliant heat exchange surface moves normal to and tangential to the longitudinal axis of the heat transfer device; and a second manifold connected to said compliant heat exchange surface adapted to collect working fluid that exits the compliant heat exchange surface; and a delivery device adapted to deliver working

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fluid to the inflatable distal manifold and remove working fluid from the inflatable distal manifold, thereby creating heat exchange surface dynamics, classified in class 604, subclass 114.

- III. Claims 38-42, drawn to a multi-lumen catheter for providing a working fluid pathway; a proximal manifold for connecting said multi-lumen catheter, distributing the working fluid, and driving rotary motion of a compliant heat exchange surface, a compliant heat transfer device, exchange surface that spins about the longitudinal axis of the heat a distal manifold connected to said heat exchange surface adapted to collect the working fluid inside the said heat exchange surface; and a control system adapted to circulate the working fluid and drive the rotary motion of the proximal manifold; whereby the heat exchange process is augmented by creating a circumferential heat exchange surface motion, classified in class 604, subclass 291.
- IV. Claim 43, drawn to a method for altering an organ temperature, classified in class 604, subclass 500.

The inventions are distinct, each from the other because of the following reasons:

Inventions I-III and IV are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the method can

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be used with a materially different apparatus since the method requires the use of apparatuses that are not positively disclosed in the apparatus claims.

Inventions I, II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, inventions I, II, III have separate utility in view of the structural differences as indicated in the Groups above. See MPEP § 806.05(d).

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Manuel Mendez whose telephone number is 703-272-4977. The examiner can normally be reached on 0730-1800 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr.Nicholas D. Lucchesi can be reached on 571-272-4977. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Manuel Mendez

Primary Examiner Art Unit 3763

MM